Docket No.: 1020.P16723

Examiner: Park, Jung H.

TC/A.U. 2616

REMARKS

Summary

Claims 1-37 stand in this application. Claim 16 has been amended. No new

matter has been added. Favorable reconsideration and allowance of the standing claims

are respectfully requested.

Allowable Claims

We would like to thank the Examiner for indicating the allowability of claim 23 if

amended to include all of the limitations of the base claims and any intervening claims.

Applicant respectfully submits, however, that these claims represent patentable subject

matter as currently listed based on the amendments and/or remarks given for the

independent claims as discussed in detail below. Applicant would like to respectfully

reserve the right, however, to amend the allowable claims into independent form during

further prosecution if warranted.

35 U.S.C. § 112

Claim 16 has been rejected under 35 U.S.C. § 112 for not particularly pointing out

and distinctly claiming the subject matter which the applicant regards as his invention.

Applicant respectfully traverses the rejection based on the above amendments. These

claims have been amended in accordance with the Office Action, and removal of this

rejection is respectfully requested. Applicant further submits that the above amendments

are made to overcome a § 112 rejection and are not made to overcome the cited

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references. Accordingly, these amendments should not be construed in a limiting manner.

35 U.S.C. § 102

At page 3, paragraph 5 of the Office Action claims 28, 29 and 35-37 stand rejected under 35 U.S.C. § 102 as being anticipated by Fischer et al., U.S. Patent Publication 2002/0089927 (hereinafter "Fischer"). Applicant respectfully traverses the rejection, and requests reconsideration and withdrawal of the anticipation rejection.

Applicant respectfully submits that to anticipate a claim under 35 U.S.C. § 102, the cited reference must teach every element of the claim. See MPEP § 2131, for example. Applicant submits that Fischer fails to teach each and every element recited in claims 28 and 29 and thus they define over Fischer. For example, with respect to claim 28. Fischer fails to teach, among other things, the following language:

detecting a channel quality or other criteria; and reserving a portion of a transmit opportunity for expected retries based upon the detected channel quality or other criteria.

According to the Office Action, this language is disclosed by the Fischer at Paragraph 57. Applicant respectfully disagrees. Fischer, at the given cite, in relevant part, states:

The frame descriptor includes a retry strategy (RS) field that instructs the TX frame manager 303 regarding the retry strategy for the corresponding frame, such as whether to retry the frame in the event that the initial delivery attempt is unsuccessful, and if unsuccessful, how many times to retry the frame. The frame descriptor may further include a frame lifetime (FL) field that includes a timing parameter that specifies a retry time duration. The retry time duration may be used instead of a retry number or in addition thereto. If a retry count is specified along

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with a frame lifetime, the frame is retried up to the specified number of times defined by the retry count or until expiration of the frame lifetime, whichever occurs first.

The Applicant respectfully submits that Fischer, arguably, teaches a retry strategy field that statically provides a strategy (either number of tries or a specified duration) based on a predefined frame descriptor. In contrast, the claimed subject matter detects the channel quality or other criteria and then reserves a portion of the transmit opportunity for expected retries based upon the detected channel quality or other criteria. Consequently, Fischer fails to disclose all the elements or features of the claimed subject matter. Accordingly, Applicant respectfully requests removal of the anticipation rejection with respect to claim 28.

Furthermore, Applicant respectfully requests withdrawal of the anticipation rejection with respect to claim 29, which depend from claim 28 and, therefore, contain additional features that further distinguish these claims from Fischer.

Claim 35 recites features similar to those recited in claim 28. Therefore, Applicant respectfully submits that claim 35 is not anticipated and is patentable over Fischer for reasons analogous to those presented with respect to claim 28. Accordingly, Applicant respectfully requests removal of the anticipation rejection with respect to claims 35. Furthermore, Applicant respectfully requests withdrawal of the anticipation rejection with respect to claims 36 and 37 that depend from claim 35, and therefore contain additional features that further distinguish these claims from Fischer.

At page 4, paragraph 6 of the Office Action claims 15-17 stand rejected under 35 U.S.C. § 102 as being anticipated by Benveniste, U.S. Patent Publication 2002/0154653.

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Applicant respectfully traverses the rejection, and requests reconsideration and withdrawal of the anticipation rejection.

Applicant respectfully submits that to anticipate a claim under 35 U.S.C. § 102, the cited reference must teach every element of the claim. See MPEP § 2131, for example. Applicant submits that Benveniste fails to teach each and every element recited in claims 15-17 and thus they define over Benveniste. For example, with respect to claim 15. Benveniste fails to teach, among other things, the following language:

the processor adapted to calculate a probability of packet failure, to calculate an expected maximum number of retries based on the calculated probability of packet failure and a probability distribution, and to reserve a portion of a transmit opportunity for retries based upon the expected number of retries.

According to the Office Action, this language is disclosed by Benveniste at Paragraphs 41 and 44. Applicant respectfully disagrees. Benveniste at the given cite, in relevant part, arguably teaches a backoff delay that is selected randomly from a statistical distribution. In contrast, the claimed subject matter calculates an expected maximum number of retries based on the calculated probability of packet failure and a probability distribution, and reserves a portion of a transmit opportunity for retries based upon the expected number of retries. Consequently, Benveniste fails to disclose all the elements or features of the claimed subject matter. Accordingly, Applicant respectfully requests removal of the anticipation rejection with respect to claim 15. Furthermore, Applicant respectfully requests withdrawal of the anticipation rejection with respect to claims 16 and 17, which depend from claim 15 and, therefore, contain additional features that further distinguish these claims from Benveniste.

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35 U.S.C. § 103

At page 5, paragraph 8 claims 1-11, 13 and 14 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Fischer in view of Ergen (IEEE 802.11 Tutorial). Applicant respectfully traverses the rejection, and requests reconsideration and withdrawal of the obviousness rejection.

The Office Action has failed to meet its burden of establishing a prima facie case of obviousness. According to MPEP § 2143, three basic criteria must be met to establish a prima facie case of obviousness. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. In re Vaeck, 947 F.2d 488, 20 USPO2d 1438 (Fed. Cir. 1991). See MPEP 706.02(i).

As recited above, to form a prima facie case of obviousness under 35 U.S.C § 103(a) the cited references, when combined, must teach or suggest every element of the claim. See MPEP § 2143.03, for example. Applicant respectfully submits that the Office Action has not established a prima facie case of obviousness because the cited references, taken alone or in combination, fail to teach or suggest every element recited in claims 1-11, 13 and 14. Therefore claims 1-11, 13 and 14 define over Fischer and Ergen whether taken alone or in combination. For example, claim 1 recites the following language, in relevant part:

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the processor to allocate a first portion of a transmit opportunity for an initial data burst and to allocate a second portion of the transmit opportunity for other operations including retries.

According to the Office Action, this limitation is disclosed by Fischer at Paragraph 77. Applicant respectfully disagrees. Fischer at the given cite, in relevant part, states:

Thus, the scheduling entity 109 intends that frames F1-F3 be transmitted during the first interval 11 whereas the remaining frames F4-F6 are to be transmitted during the next sequential interval 12.

Applicant respectfully submits that Fischer, arguably, teaches a scheduling entity that schedules a series of frames to be transmitted in multiple, sequential and independent transmission opportunities, or intervals. By way of contrast, the claimed subject matter allocates two portions within a single transmission opportunity by allocating a first portion of a transmit opportunity for an initial data burst and allocating a second portion of the transmit opportunity for other operations including retries. Therefore, Fischer fails to disclose, teach or suggest the missing language. Consequently, Fischer and Ergen, whether taken alone or in combination, fail to disclose, teach or suggest every element recited in claim 1.

Independent claims 10, 13, 18, 26, 30, and 33 recite features similar to those recited in claim 1. Therefore, Applicant respectfully submits that claims 10, 13, 18, 26, 30, and 33 are patentable and non-obvious over Fischer and Ergen for reasons analogous to those presented with respect to claim 1. Accordingly, Applicant respectfully requests removal of the obviousness rejection with respect to claims 1, 10, 13, 18, 26, 30, and 33.

Furthermore, if an independent claim is non-obvious under 35 U.S.C. § 103, then any claim depending therefrom is non-obvious. See MPEP § 2143.03, for example. Appl. No. 10/602,393

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Accordingly, removal of the obviousness rejection with respect to claims 2-9, 11, 12, 14,

19-25, 27, 31, 32, and 34 is respectfully requested. Claims 2-9, 11, 12, 14, 19-25, 27, 31,

32, and 34 also are non-obvious and patentable over Fischer and Ergen, taken alone or in

combination, at least on the basis of their dependency from claims 1, 10, 13, 18, 26, 28,

combination, at least on the basis of their dependency from claims 1, 10, 13, 18, 26, 28,

30, and 33. Applicant, therefore, respectfully requests the removal of the obviousness

rejection with respect to these dependent claims.

Conclusion

For at least the above reasons, Applicant submits that claims 1-37 recite novel

features not shown by the cited references. Further, Applicant submits that the above-

recited novel features provide new and unexpected results not recognized by the cited

references. Accordingly, Applicant submits that the claims are not anticipated nor

rendered obvious in view of the cited references.

Applicant does not otherwise concede, however, the correctness of the Office

Action's rejection with respect to any of the dependent claims discussed above.

Accordingly, Applicant hereby reserves the right to make additional arguments as may be

necessary to further distinguish the dependent claims from the cited references, taken

alone or in combination, based on additional features contained in the dependent claims

that were not discussed above. A detailed discussion of these differences is believed to

be unnecessary at this time in view of the basic differences in the independent claims

pointed out above.

It is believed that claims 1-37 are in allowable form. Accordingly, a timely

Notice of Allowance to this effect is earnestly solicited.

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The Examiner is respectfully requested to contact the undersigned by telephone if such contact would further the examination of the present patent application.

Respectfully submitted,

KACVINSKY LLC

John F. Kacvinsky, Reg. No. 40,040 Under 37 CFR 1.34(a)

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